

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	73	Kim-Jong-Kwon.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:44
L2	79	Lee-Ki-Cheol.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:44
L3	199	Koh-Jun-Ho.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:44
L4	268	L1 L2 L3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:44
L5	754695	circulat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:47
L6	74974	5.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:47
L7	15326	398/1-214.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:47
L8	26	4 and 6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:48
L9	316	398/55-57.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:49
L10	434	398/83.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:56
L11	205	398/84.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:54
L12	210	398/50.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:55
L13	211	398/49.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:55
L14	167	13 not 12	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:55

## EAST Search History

L15	12	6 and 14	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:55
L16	249	398/85.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:56
L17	202	16 not 11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:59
L18	22069	grating\$1.cdm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:59
L19	1056	6 and 18	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:59
L20	355	7 and 19	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/25 08:59
S1	2	"20040218927".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 07:49
S3	36255	wavelength adj2 multiplex\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/11 16:33
S4	27170	dwdm or wdm	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/11 14:24
S6	41421	S3 or S4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/11 14:24
S7	170818	add\$4 near drop\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/11 14:25
S8	712248	circulat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/11 14:25
S9	13935	398/1-214.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/11 14:29
S10	1808	S6 and S7 and S8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/11 14:30
S11	679	S7 with S8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/11 14:33

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S12	553	S11 and S6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/11 14:33
S13	241	S9 and S12	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/11 14:37
S14	312	S12 not S13	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/11 14:34
S15	167530	bidirection\$4 or bi-direction\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/11 14:39
S16	111	S11 same S15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/11 15:06
S17	254	S11 and S15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/11 15:06
S18	143	S17 not S16	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/11 15:06
S19	35	(US-20040218927-\$ or US-20010038477-\$ or US-20020071156-\$ or US-20040033080-\$).did. or (US-5479082-\$ or US-5633741-\$ or US-6243177-\$ or US-6288811-\$ or US-6307986-\$ or US-6321004-\$ or US-6333798-\$ or US-6339663-\$ or US-6388802-\$ or US-6449072-\$ or US-6552834-\$ or US-6832019-\$ or US-6934474-\$ or US-6952308-\$ or US-6061484-\$ or US-6130765-\$ or US-6236499-\$ or US-6281998-\$ or US-6288810-\$ or US-6310994-\$ or US-6437888-\$ or US-6538783-\$ or US-6616348-\$ or US-6678080-\$ or US-6934473-\$ or US-7058256-\$).did. or (US-7095958-\$).did. or (EP-1445973-\$).did. or (EP-835003-\$ or US-20020039213-\$ or GB-2321809-\$).did.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/09/11 15:22
S20	425	S11 not S17	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/11 15:51
S21	312	S6 and S20	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/11 15:51
S22	9	("5600473"   "5706375"   "5726785"   "5748349"   "5822095"   "5850301"   "5926300"   "5982518"   "6198556").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 16:05
S23	40	("6061484").URPN.	USPAT	OR	OFF	2006/09/11 16:18
S24	16	("5548431"   "5647035"   "5712932"   "5760934"   "5796501"   "5812306"   "6038044"   "6046833"   "6049405"   "6061484"   "6067389"   "6097516"   "6101012"   "6130764"   "6130765"   "6160660").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 16:22

## EAST Search History

S25	46	("4906064"   "5181134"   "5260823"   "5283686"   "5351321"   "5446809"   "5457758"   "5548431"   "5555118"   "5570218"   "5570440"   "5579143"   "5600473"   "5615290"   "5627925"   "5633741"   "5647035"   "5675676"   "5677786"   "5712932"   "5726785"   "5742416"   "5748364"   "5760934"   "5778118"   "5796501"   "5808787"   "5812306"   "5838477"   "5946430"   "6002820"   "6038044"   "6038046"   "6046833"   "6049405"   "6061157"   "6061484"   "6067389"   "6097516"   "6101012"   "6108468"   "6115158"   "6130764"   "6130765"   "6160660"   "6281997").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 16:25
S26	82	("6061484"   "6067389"   "6130765"   "6160660"   "6281998"   "6288812"   "6538783").URPN.	USPAT	OR	OFF	2006/09/11 16:27
S27	1428	398/82-88.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/14 15:26
S28	1286	S27 not S11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/11 16:33
S29	429	S8 and S27	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/11 16:33
S30	287	S28 and S8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 07:42
S31	36296	wavelength adj2 multiplex\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 07:43
S32	27208	dwdm or wdm	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 07:43
S33	41467	S31 or S32	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 07:43
S34	712505	circulat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 07:43
S35	1985	S33 same S34	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 07:44
S36	179	(third or fourth) adj circulator\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 07:47
S37	65	Kim-Jong-Kwon.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 07:49
S38	73	Lee-Ki-Cheol.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 07:49

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S39	165	Koh-Jun-Ho.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 07:50
S40	228	S37 S38 S39	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/13 15:51
S41	34	S34 and S40	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 07:50
S42	5	("20010048540"   "5448660"   "6310994"   "6519064"   "6943925").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/12 07:57
S43	65	Kim-Jong-Kwon.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/13 15:51
S44	73	Lee-Ki-Cheol.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/13 15:51
S45	165	Koh-Jun-Ho.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/13 15:51
S46	228	S43 S44 S45	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/13 15:51
S47	1	2004-820582.NRAN.	DERWENT	OR	OFF	2006/09/13 15:53
S48	1	2004-820582.NRAN.	DERWENT	OR	OFF	2006/09/13 15:53
S49	227	398/50,56.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/13 16:16
S50	1731	398/50,56,82-88.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/14 15:26
S51	740595	circulat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/14 15:26
S52	1	("6067389").PN.	US-PGPUB; USPAT	OR	OFF	2007/03/14 15:28
S53	481	S50 and S51	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/14 15:27
S54	97	398/4.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/14 15:34
S55	351	398/4,5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/14 15:34

## EAST Search History

S56	177475	bidirection\$4 or bi-direction\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/14 15:35
S57	180	S55 and S56	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/14 15:37
S58	307	398/55-57.cds.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/14 15:37
S59	78	S56 and S58	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/03/14 15:37